UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF ALLOWANCE AND FEE(S) DUE

2292	7590	06/15/2009

BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747

EXAMINER
LIN, WEN TAI

ART UNIT	PAPER NUMBER
2454	

DATE MAILED: 06/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,553	12/22/2004	Juhana Enqvist	0365-0616PUS1	8402

TITLE OF INVENTION: MEDIATION SYSTEM AND METHOD WITH REAL TIME PROCESSING CAPABILITY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	09/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u>

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or <u>Fax</u> **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

2292   7590   06/15/2009

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

_____ (Depositor's name)

_____ (Signature)

_____ (Date)

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10/518,553	12/22/2004	Juhana Enqvist	0365-0616PUS1	8402

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nonprovisional	NO	$1510	$300	$0	$1810	09/15/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
LIN, WEN TAI	2454	709-224000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1_____

2_____

3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____   Date _____

Typed or printed name _____   Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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10/518,553	12/22/2004	Juhana Enqvist	0365-0616PUS1	8402

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EXAMINER
LIN, WEN TAI

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2454	

DATE MAILED: 06/15/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 385 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 385 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

	Application No.	Applicant(s)
Notice of Allowability	10/518,553	ENQVIST, JUHANA
	Examiner	Art Unit	
	Wen-Tai Lin	2454	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed 4/13/09*.

2. ☒ The allowed claim(s) is/are *1-6, 9-12, 14-21 and 24-52, renumbered as 1-47*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a) ☒ All   b) ☐ Some*   c) ☐ None   of the:

      1. ☒ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

     * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
      Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),
   Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
   of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),
   Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____.

EXAMINER'S AMENDMENT

1.   An examiner's Amendment to the record appears below. Should the changes

and/or additions be unacceptable, an amendment may be filed as provided by 37 C.F.R.

1.312. To ensure consideration of such an amendment, it MUST be submitted no later

than the payment of the Issue Fee.

Authorization for the examiner's amendment was given in a telephone interview with

Mr. Carl Thomsen, reg. no. 50786, on June 8, 2009.

2.   In the claims: please cancel claims 22-23 and amend claims 1, 24, 42 and 52 to

the following:

1. (Currently Amended) A <u>computer-implemented</u> method for mediating event records

   between a generation layer of events and an operation system layer of events in a

   communications network by means of a mediation layer of events, which includes

   at least one first self-contained component, at least one second self-contained

   component, and at least one third self-contained component, which first, second,

   and third self-contained components operate independently of each other, and

   wherein the mediation layer of events further comprises at least one buffer, the

   method comprising passing the event records through a processing chain of the at

   least three self-contained components, starting from one of the first self-contained

   components, then through one of the third self-contained components, and finally

through one of the second self-contained components, and for said mediating and

passing,

— the method further comprising:

— collecting the event records from an element of the generation layer of events

substantially continuously as a stream, by the first self-contained component in the

processing chain,

— processing the collected event records substantially continuously in the processing

chain, wherein the step of processing includes:

— writing the event records output from each preceding self-contained component

in the processing chain into one of said at least one buffer,

— reading said buffer substantially continuously by the subsequent self-contained

component in the processing chain for reading the event records as input for

said subsequent self-contained component from the buffer,

— after reading any of the event records from the buffer by any subsequent self-

contained component in the processing chain, retaining a copy of said read

event record in the buffer, and

removing the retained copy of the event record from the buffer after successfully

outputting the event record from the subsequent self-contained component in the

processing chain, and delivering the processed event records to an element of

the operation system layer of events substantially continuously as a stream, by

the second self-contained component in the processing chain,

—   the method further comprising:

—   providing each of the self-contained components with its own individual

settings,

each of the self-contained components functioning according to its own

individual settings,

wherein said individual settings of each of the self-contained components include

—   a node base part of the settings, which is identical to the node base parts of the

other self-contained components within the mediation layer, and

—   a node application part of the settings, which contain custom processing rules

and which is different to the node application parts of at least most of the other

self-contained components within the mediation layer.

24. (Currently Amended) A system for handling event records in a communications

network between a generation layer of events and an operation system layer of

events by means of a mediation layer of events, the system comprising:

—   at least one first self-contained component, at least one second self-contained

component, and at least one third self-contained component for processing event

records, each of the first, second, and third self-contained components having its

own settings, and each operates independently of other components of the system,

the first, second, and third self-contained components being configured to handle event records in series through a processing chain such that a preceding one of the self-contained components writes the event records output into a buffer, and a subsequent one of the self-contained components reads its input substantially continuously from the buffer,

– at least one node manager component for configuring each of the first, second, and third self-contained components, starting up each of the first, second, and third self-contained components, monitoring the functioning of each of the first, second, and third self-contained components, and stopping each of the first, second, and third self-contained components, when required, and

– a system database for managing all configuration information of each of the first, second, and third self-contained components, and for storing information on handled events,

– wherein the system is adapted to perform the steps of:

– collecting the event records from an element of the generation layer of events substantially continuously as a stream, by the first self-contained component in the processing chain,

– processing the collected event records substantially continuously in the processing chain, wherein the step of processing includes:

– writing the event records output from each preceding self-contained component in the processing chain into one of said at least one buffer,

- reading said buffer substantially continuously by the subsequent self-contained component in the processing chain for reading the event records as input for said subsequent self-contained component from the buffer,

- after reading any of the event records from the buffer by any subsequent self-contained component in the processing chain, retaining a copy of said read event record in the buffer, and

- removing the retained copy of the event record from the buffer after successfully outputting the event record from the subsequent self-contained component in the processing chain,

- delivering the processed event records to an element of the operation system layer of events substantially continuously as a stream, by the second self-contained component in the processing chain,

- wherein the system is further adapted to perform the steps of:

    - providing each of the self-contained components with its own individual settings,
    each of the self-contained components functioning according to its own individual settings,

    wherein said individual settings of each of the self-contained components include

    - a node base part of the settings, which is identical to the node base parts of the other self-contained components within the mediation layer, and

—   a node application part of the settings, which contain custom processing rules

and   which is different to the node application parts of at least most of the

other self-contained components within the mediation layer.

42. (Currently Amended) A computer program product including a computer-readable

storage medium for a system for handling to handle event records in a

communications network between a generation layer of events and an operation

system layer of events, which system comprises at least a first self-contained

component, at least a second self-contained component, and at least a third self-

contained component of a mediation layer for processing the event records, the

computer program product comprising:

—   a node base program means capable of providing basic software functionality for the

first, second, and third self-contained components, said basic software functionality

including an external interface, and an internal interface of each of the self-

contained components,

—   an application programming interface means for receiving application programs for

each of the self-contained components, which application programs are capable of

interfacing with the internal interfaces of each of the self-contained components,

—   a node manager program means for setting up at least one node manager that is

capable of constructing, configuring, starting up, monitoring and stopping each of

the self-contained components, and

—   a user interface program means for setting up a user interface for configuring the at

least one node manager,

–   wherein the computer program product is adapted to perform the steps of:

–   passing the event records through a processing chain of the at least three self-contained components, starting from one of the first self-contained components, then through one of the third self-contained components, and finally through one of the second self-contained components, and for said mediating and passing,

the method comprises performing the steps of:

–   collecting event records from an element of the generation layer of events substantially continuously as a stream, by the first self-contained component in the processing chain,

–   processing the collected event records substantially continuously in the processing chain, wherein the step of processing includes:

    –   writing the event records output from each preceding self-contained component in the processing chain into one of said at least one buffer,

    –   reading said buffer substantially continuously by the subsequent self-contained component in the processing chain for reading the event records as input for said subsequent self-contained component from the buffer,

    –   after reading any of the event records from the buffer by any subsequent self-contained component in the processing chain, retaining a copy of said read event record in the buffer, and

— removing the retained copy of the event record from the buffer after successfully outputting the event record from the subsequent self-contained component in the processing chain,

— delivering the processed event records to an element of the operation system layer of events substantially continuously as a stream, by the second self-contained component in the processing chain,

— the method further comprising:

— providing each of the self-contained components with its own individual settings,
each of the self-contained components functioning according to its own individual settings,

wherein said individual settings of each of the self-contained components include

— a node base part of the settings, which is identical to the node base parts of the other self-contained components within the mediation layer, and

— a node application part of the settings, which contain custom processing rules and which is different to the node application parts of at least most of the other self-contained components within the mediation layer.

52. (Currently Amended) A computer program product according to claim 42, which supports multi-host execution and is capable starting up the first, second, and third self-contained components in different hosts, and configuring the ~~the~~ first, second,

and third self-contained components in different hosts to form processing chains for

processing the event records.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-

3969. The examiner can normally be reached on Monday-Friday (8:00-5:00) .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (571)272-1915. The fax phone numbers

for the organization where this application or proceeding is assigned are as follows:

(571)273-8300 for official communications; and

(571)273-3969 for status inquires draft communication.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Wen-Tai Lin

June 8, 2009

/Wen-Tai Lin/

Primary Examiner, Art Unit 2454